



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Zhang et al.
Serial No.: 10/800,489

Filed: March 15, 2004

Examiner: Luke R. Osborne
Group Art Unit: 2123

Title: METHOD FOR AUTOMATIC COMMUNITY
MODEL GENERATION BASED ON UNI-PARITY
DATA

AFFIDAVIT
Pursuant to 37 CFR §1.131(b)

1. I, John J. Salerno, make this affidavit pursuant to Title 37 of the Code of Federal Regulations, Patents Trademarks and Copyrights, Section 1.131(b), for the purpose of establishing the date of conception and reduction to practice of my invention entitled METHOD FOR AUTOMATIC COMMUNITY MODEL GENERATION BASED ON UNI-PARITY DATA as filed in U.S. Patent Application 10/800,489 on March 15, 2004, as being prior to the date of the reference cited by the Examiner under 35 USC §102(a) in an Office Action dated September 30, 2008. I reside at 6109 Walker Road, Deerfield, NY. I am presently a principal computer engineer at the Air Force Research Laboratory, Rome, New York.

2. I conceived my invention in cooperation with my coinventor, Dr. Zhongfei Zhang, associate professor of computer science at the State University of New York at Binghamton, New York, during Dr. Zhang's first work assignment at AFRL under grant number F30602-02-M-V020. I oversaw Dr. Zhang's work here at AFRL and collaborated in his research leading to the conception of our invention. Dr. Zhang reported our joint invention to AFRL on August 21, 2002 on a DD Form 882 Report of Inventions and Subcontracts (attached hereto) as required by the terms of his grant. Dr. Zhang prepared and submitted to me a Final Report entitled "CORAL: A Data Mining Technique for Automatic Model Generation" in August 2002 that documented his efforts under the grant during summer 2002, including an enabling description of our invention (attached hereto).

3. Dr. Zhang returned to AFRL for another work assignment under a second grant during the summer of 2003 where he and I further reduced our invention to practice, including focusing on its practical application. Dr. Zhang documented and submitted to AFRL this further reduction to practice in a final report entitled "Uni-Parity Data Community Generation Research and Its Applications" in August 2003 (attached hereto).

At the conclusion of this work assignment Dr. Zhang and I provided the AFRL patent attorney, Mr. Joseph A. Mancini, with all the materials necessary for his drafting of the patent application covering our invention.

4. My coinventor, Dr. Zhang, and I authored a paper entitled "Applying Data Mining in Investigating Money Laundering Crimes" which was submitted to the SIGKDD '03 Conference held in Washington, DC in August 24-27, 2003. Philip S. Yu, being well-known in the field, was asked to and did provide an editorial review of this paper and, as a courtesy, was included as an author. Philip Yu is neither a coinventor of nor was he at any time prior to the filing of our patent application 10/800,489 in possession of knowledge to enable him to practice our invention.

Affiant: John J. Salerno
John J. Salerno

STATE OF NEW YORK

SS:

COUNTY OF ONEIDA

On the 22nd day of October in the year 2008 before me, a Notary Public in and for the county of ONEIDA and state of New York, personally appeared John J. Salerno, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me the he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument as his free act and deed.

(Seal)

Judith M. Decker
Notary Public

JUDITH M. DECKER
NOTARY PUBLIC, State of New York
Appointed in Oneida County
Commission Expires 16 Nov. 2009

REPORT OF INVENTIONS AND SUBCONTRACTS

(Pursuant to "Patent Rights" Contract Clause) (See Instructions on back)

Form Approved
OMB No. 9000-0095
Expires Oct 31, 2004

The public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (9000-0095), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THIS ADDRESS. RETURN COMPLETED FORM TO THE CONTRACTING OFFICER.

1. a. NAME OF CONTRACTOR/SUBCONTRACTOR ZHONGFEI ZHANG		c. CONTRACT NUMBER F30602-02-M-V020		2. a. NAME OF GOVERNMENT PRIME CONTRACTOR		c. CONTRACT NUMBER		3. TYPE OF REPORT (X one) a. INTERIM <input checked="" type="checkbox"/> b. FINAL	
b. ADDRESS (Include ZIP Code) 4048 LANDERDALE DRIVE VESTAL NY 13850		d. AWARD DATE (YYYYMMDD) 20020507		b. ADDRESS (Include ZIP Code)		d. AWARD DATE (YYYYMMDD)		4. REPORTING PERIOD (YYYYMMDD) a. FROM 20020520 b. TO 20020823	

SECTION I - SUBJECT INVENTIONS

5. "SUBJECT INVENTIONS" REQUIRED TO BE REPORTED BY CONTRACTOR/SUBCONTRACTOR (If "None," so state)

NAME(S) OF INVENTOR(S) (Last, First, Middle Initial)	TITLE OF INVENTION(S)	DISCLOSURE NUMBER, PATENT APPLICATION SERIAL NUMBER OR PATENT NUMBER c.	ELECTION TO FILE PATENT APPLICATIONS (X)				CONFIRMATORY INSTRUMENT OR ASSIGNMENT FORWARDED TO CONTRACTING OFFICER (X)	
			(1) UNITED STATES		(2) FOREIGN			
			(a) YES	(b) NO	(a) YES	(b) NO		
ZHANG, ZHONGFEI	METHOD AND APPARATUS FOR AUTOMATIC MODEL GENERATION IN INFORMATION FUSION	N/A		X		X		

1. EMPLOYER OF INVENTOR(S) NOT EMPLOYED BY CONTRACTOR/SUBCONTRACTOR

(1) (a) NAME OF INVENTOR (Last, First, Middle Initial) SALERNO, JOHN J. JR, PHD	(2) (a) NAME OF INVENTOR (Last, First, Middle Initial)	(1) TITLE OF INVENTION METHOD AND APPARATUS FOR AUTOMATIC MODEL GENERATION IN INFORMATION FUSION	(2) FOREIGN COUNTRIES OF PATENT APPLICATION N/A
(b) NAME OF EMPLOYER AFRL/IFEA			
(c) ADDRESS OF EMPLOYER (Include ZIP Code) 32 BROOKS RD ROME NY 13441-4114			

SECTION II - SUBCONTRACTS (Containing a "Patent Rights" clause)

6. SUBCONTRACTS AWARDED BY CONTRACTOR/SUBCONTRACTOR (If "None," so state)

NAME OF SUBCONTRACTOR(S) a.	ADDRESS (Include ZIP Code) b.	SUBCONTRACT NUMBER(S) c.	FAR "PATENT RIGHTS" d.		DESCRIPTION OF WORK TO BE PERFORMED UNDER SUBCONTRACT(S) e.	SUBCONTRACT DATES (YYYYMMDD) f.	
			(1) CLAUSE NUMBER	(2) DATE (YYYYMM)		(1) AWARD	(2) ESTIMATED COMPLETION
N/A							

SECTION III - CERTIFICATION

7. CERTIFICATION OF REPORT BY CONTRACTOR/SUBCONTRACTOR (Not required if: (X as appropriate)) SMALL BUSINESS or NONPROFIT ORGANIZATION

I certify that the reporting party has procedures for prompt identification and timely disclosure of "Subject Inventions," that such procedures have been followed and that all "Subject Inventions" have been reported.

a. NAME OF AUTHORIZED CONTRACTOR/SUBCONTRACTOR OFFICIAL (Last, First, Middle Initial) ZHANG, ZHONGFEI	b. TITLE ASSISTANT PROFESSOR	c. SIGNATURE 	d. DATE SIGNED 21 AUGUST 2002
---	---------------------------------	---	----------------------------------



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Zhang et al.
Serial No.: 10/800,489

Filed: March 15, 2004

Examiner: Luke R. Osborne
Group Art Unit: 2123

Title: METHOD FOR AUTOMATIC COMMUNITY
MODEL GENERATION BASED ON UNI-PARITY
DATA

AFFIDAVIT
Pursuant to 37 CFR §1.131(b)

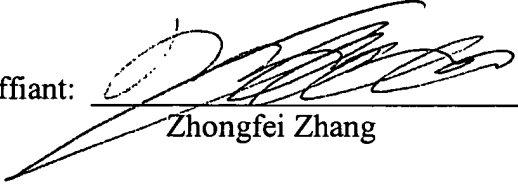
1. I, Zhongfei Zhang, make this affidavit pursuant to Title 37 of the Code of Federal Regulations, Patents Trademarks and Copyrights, Section 1.131(b), for the purpose of establishing the date of conception and reduction to practice of my invention entitled METHOD FOR AUTOMATIC COMMUNITY MODEL GENERATION BASED ON UNI-PARITY DATA as filed in U.S. Patent Application 10/800,489 on March 15, 2004, as being prior to the date of the reference cited by the Examiner under 35 USC §102(a) in an Office Action dated September 30, 2008. I reside at 201 Evergreen St., #4-3B, Vestal, NY. I am presently an associate professor of computer science at the State University of New York at Binghamton, New York.

2. I conceived my invention in cooperation with my coinventor, Air Force Research Laboratory (hereinafter, AFRL) scientist Dr. John J. Salerno, during my first work assignment at AFRL under grant number F30602-02-M-V020. I reported this invention on August 21, 2002 on a DD Form 882 Report of Inventions and Subcontracts (attached hereto). I also authored and submitted to AFRL a Final Report entitled "CORAL: A Data Mining Technique for Automatic Model Generation" in August 2002 that documents and describes the essence of our invention conceived and tested during summer 2002 (attached hereto).

3. I returned to AFRL for another work assignment under a second grant during the summer of 2003 where I and my coinventor, Dr. John Salerno, further reduced our invention to practice, including focusing on its practical application. This further reduction to practice was documented in a final report entitled "Uni-Parity Data Community Generation Research and Its Applications" in August 2003 (attached hereto) and submitted to AFRL. At the conclusion of this work assignment Dr. Salerno and I provided the AFRL patent attorney, Mr. Joseph A. Mancini, with all the materials necessary for his drafting of the patent application covering our invention.

4. My coinventor, Dr. Salerno, and I authored a paper entitled "Applying Data Mining in Investigating Money Laundering Crimes" which was submitted to the SIGKDD '03 Conference held in Washington, DC in August 24-27, 2003. Philip S. Yu, being well-known in the field, was asked to and did provide an editorial review of this paper and, as a courtesy, was included as an author. Philip Yu is neither a coinventor nor was he at any time prior to the filing of our patent application 10/800,489 in possession of knowledge to enable him to practice our invention.

Affiant:


Zhongfei Zhang

STATE OF NEW YORK

ss:

COUNTY OF BROOME

On the 20 day of October in the year 2008 before me, a Notary Public in and for the county of Broome and state of New York, personally appeared Zhongfei Zhang, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument as his free act and deed.

(Seal)


Notary Public

ROBERTA L. LIBOVS
NOTARY PUBLIC - STATE OF NEW YORK
No. 01-LI6123949
Qualified in Broome County
My Commission Expires March 21, 2009

